# TRANSLATION PATENT COOPERATION TREATY POT

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PCT2089FZ015hme				FOR FURTHER A	CTION	See Form PCT/IPEA/416		
International application No.				International filing dat	e (day/month/year)	Priority date (day/month/year)		
PCT/EP2004/011978			.978	22.10.2004	4	22.10.2003		
International Patent Classification (IPC) or national classification and IPC  A61K33/04								
Applicant BIOSYN ARZNEIMITTEL GMBH								
1.	1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
2.	This R	EPORT consist	s of a total of _	6	sheets, incl	luding this cover sheet.		
3.	This re	eport is also acco	ompanied by A	NNEXES, comprising:				
	a. [	(sent to the	applicant and	to the International Bu	reau) a total of	sheets, as follows:		
						een amended and are the basis for this report and/or		
	sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental							
	ь. Г	Box.	International	Bureau onlv) a total of (	indicate type and m	umber of electronic carrier(s))		
	٠. ـ				mare and type and in			
		related theret	o, in computer	readable form only, as	indicated in the Si	, containing a sequence listing and/or tables upplemental Box Relating to Sequence Listing (see		
		Section 802 o	of the Administ	rative Instructions).				
4.	This re	eport contains in	dications relati	ng to the following item	is:			
	$\boxtimes$	Box No. I	Basis of the	report				
	$\boxtimes$	Box No. II	Priority					
		Box No. III	Non-establi	shment of opinion with	regard to novelty, i	nventive step and industrial applicability		
		Box No. IV	Lack of unit	ty of invention				
	$\boxtimes$	Box No. V		atement under Article 3 d explanations supportir		novelty, inventive step or industrial applicability;		
	Box No. VI Certain documents cited							
		Box No. VII	Certain defe	ects in the international a	application			
		Box No. VIII	Certain obs	ervations on the internat	ional application			
Date of	submiss	ion of the demar	nd		Date of completion	of this report		
Name and mailing address of the IPEA/EP					Authorized officer			
Facsimile No.					Telephone No.			

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/011978

Box	No. I	Basis of the report						
1.		h regard to the language, this report is based on the internationated under this item.	onal application in the language in	which it was filed, unless otherwise				
		This report is based on translations from the original langum which is the language of a translation furnished for the pur international search (Rule 12.3 and 23.1(b))  publication of the international application (Rule 12.1) international preliminary examination (Rule 55.2 and 19.1).	poses of: 4)	,				
2.	rece	international preliminary examination (Rule 55.2 and/or 55.3)  With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the eceiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to a sis report):  the international application as originally filed/furnished the description:						
		pages 1–10 pages*		as originally filed/furnished				
		pages*						
	$\square$		_ received by this Additionty on					
		nos.		as originally filed/furnished				
		nos.*	as amended (togethe	r with any statement) under Article 19 16.06.2005 with letter				
		nos.* _ 1-20	received by this Authority on	of 16.06.2005				
		nos.*	received by this Authority on					
		the drawings: sheets		as originally filed/furnished				
		sheets*	received by this Authority on					
		sheets*	_ received by this Authority on					
		a sequence listing and/or any related table(s) – see Suppler	mental Box Relating to Sequence L	isting.				
3.		The amendments have resulted in the cancellation of:						
		the description, pages						
		the claims, nos.						
		the drawings, sheets/figs						
		the sequence listing (specify):						
		any table(s) related to sequence listing (specify):						
4.		This report has been established as if (some of) the amen they have been considered to go beyond the disclosure as f						
		the description, pages						
		the claims, nos.						
		the drawings, sheets/figs						
		the sequence listing (specify):						
		any table(s) related to sequence listing (specify):						
*	If ite	em 4 applies, some or all of those sheets may be marked "sup	perseded."					

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/011978

Вох	x No. I	I Priority
1.	$\boxtimes$	This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested:
		copy of the earlier application whose priority has been claimed (Rule 66.7(a)).
		translation of the earlier application whose priority has been claimed (Rule 66.7(b)).
2.		This report has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rule 64.1). Thus for the purposes of this report, the international filing date indicated above is considered to be the relevant date.
3.	Add	itional observations, if necessary:

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/011978

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement					
Novelty (N)	Claims 1-20	YES			
	Claims	NO			
Inventive step (IS)	Claims 1-20	YES			
	Claims	NO			
Industrial applicability (IA)	Claims 1-20	YES			
	Claims	NO			
2. Citations and explanations (Rule 7	0.7)				
1. This rep	port makes reference to the following				
documents	cited in the search report; the numbering				
will remain	n the same throughout the proceedings:				
D1:	DATABASE WPI Section Ch, Derwent				
	Publications Ltd., London, GB; Class				
	B04, AN 2002-563534 XP002313189 & KR				
	2002 012 947 A (JUNG S H) 6 February				
	2003 (2003-02-06)				
D2:	DATABASE WPI Section Ch, Week 199706				
	Derwent Publications Ltd., London, GB;				
	Class B04, AN 1997-059687 XP002313314 &				
	JP 08 308561 A (SUMITOMO ELECTRIC IND				
	CO) 26 November 1996 (1996-11-26)				
D3:	US-A-4 512 977 (LUNDY JOSEPH R) 23 April				
	1985 (1985-04-23)				
D4:	DATABASE WPI Section Ch, Week 198323				
	Derwent Publications Ltd., London, GB;				
	Class B01, AN 1983-55444K XP002313315 &				
	RO 80 055 A (INTR ANTIBIOTICE) 30				
2.5	October 1982 (1982-10-30)				
D5:	SENECA H ET AL: "Glucocorticoid therapy				
	in sepsis/shock caused by gram negative				

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

microorganisms." JOURNAL OF THE AMERICAN GERIATRICS SOCIETY. NOV 1975, Vol. 23, No. 11, November 1975 (1975-11), pages 493 502, XP009042536 ISSN: 0002-8614

D6: WO 00/12101 A (FORCEVILLE XAVIER; VITOUX DOMINIQUE (FR)) 9 March 2000 (2000-03-09)

The numbering of the documents cited in this report, D1-D6, is based on documents D1-D6 cited in the search report. In particular, insofar as is not otherwise noted, the cited text passages of each given document should be taken into consideration.

## Novelty

2. In terms of formal requirements, claims 1-20 appear to be novel and therefore satisfy the criterion stipulated in PCT Article 33(2).

D1 and D2 relate to a medium for cultivating cells and are therefore not suitable for pharmaceutical administration.

D3 and D4 relate to a salve or gel composition and therefore not to an aqueous solution.

### Inventive step

**3.** D6 is regarded as the prior art closest to the subject matter of claims 1-20.

It discloses the use of selenium-containing active substances for treating SIRS (systemic inflammatory response syndrome).

Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The subject matter of claims 1-20 differs from D6 in that a corticoid is used in addition to the selenium-containing active substance.

The problem to be solved by the present invention can therefore be regarded as that of "providing a further pharmaceutical preparation that makes it possible to improve the existing therapies for sepsis and/or SIRS" (page 5, paragraph 6).

D6 discloses that additional active substances having an anti-inflammatory effect can be combined with the selenium-containing composition.

D5 discusses the use of glucocorticoids for treating sepsis. (The abstract of documents D3 and D4 are used for different therapeutic applications, namely for tissue damage and as an anti-acne formulation).

A person skilled in the art would not necessarily select a glucocorticoid as an anti-inflammatory substance and combine it with the selenium—containing composition. Furthermore, the description shows a clearly synergistic effect (decrease in mortality in septic patients by up to 80%, as compared to only 20% after administration of the individual substances), which is not suggested at all by D5 or D6. Therefore, claims 1-20 likewise meet the PCT requirements for inventive step (PCT Article 33(3)).